AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph beginning at page 9, line 28 as follows:

In a further embodiment of the device according to the invention, cooling means **40** as shown in Fig. 9 are provided ~~for cooling~~. Cooling pipes, for example, may be provided in or around the container, through which liquid, cooled using an expansion process, is fed; or Peltier elements may be attached to the container. As a result, the gaseous enrichment can be intensified according to the physical laws of gas kinetics.

Please amend the paragraph beginning at page 10, line 27 as follows:

In a further advantageous embodiment of the device according to the invention, the means for supplying the gas is fitted with a manometer 42 as shown in Fig. 9. The pressure of the supplied gas can advantageously be read off and/or monitored in this manner, so that it can be regulated by means of additionally provided means, such as a valve.

Please amend the paragraph beginning at page 22, line 15 as follows:

Figure 9 shows a transverse section through a container 21 in a further embodiment of the invention. The end faces of the tubular container 21 are provided with covers 22, 23, which seal the tubular container in a pressure-tight manner by means of sealing rings 24. In an alternative development of the container according to the invention, the container comprises only one removable cover, while the tubular container and the other cover are designed in one piece. In the embodiment illustrated, the container 21 is 180 mm long, with an internal diameter of 50 mm, a wall thickness of 1.6 mm and is manufactured from V2A steel of type 1.4401. The container 21 is subdivided into volumetric portions by means of walls 30 with multiple perforations. The circular walls 30 are manufactured from stainless steel wire mesh framed by folded sheet steel. The walls 30 are ~~orientated~~ oriented parallel to the covers 22, 23 and, after

removal of the covers 22 or 23, can easily be inserted into the container 21 or removed from the container 21 for cleaning purposes or in order to adapt the required level of gaseous enrichment. For instance, 86 walls 30 made from two sorts of wire mesh are used with mesh sizes (perforation diameter) of 64 μm and 0.1 mm respectively. The two sorts of walls 30 are fitted into the container 21 in an alternating sequence in order to achieve an effective gaseous enrichment. The fluid is supplied to the container 21 via the opening 25 in the cover 22. Furthermore, the fluid-supply means provide a tubular element 28 of approximately 9 cm length and 2.5 cm external diameter, of which the casing 27 comprises several layers. In its interior, the casing 27 consists of coarse (coarsely perforated) stainless steel mesh of 2 mm perforation diameter (mesh size) in order to ~~stabilise~~ stabilize the structure, a layer of more finely perforated wire mesh with 0.4 mm mesh size disposed above this, and a layer of extremely finely perforated wire mesh with 0.60 μm mesh size. Otherwise, no output openings for fluid are provided in the container 21. Accordingly, one end 29 of the tube 28 is closed, and the fluid, which is introduced into the tube 28 at the other end, is forced to flow into the container 21 through the perforated casing 27 of the tube 28.